

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A light beam scanning apparatus, comprising:
an image processor configured to generate a plurality of control signals from image data so as to form a series of pixels along a common scan line;
a plurality of modulators configured to modulate said plurality of control signals for said series of pixels along said common scan line,
each of said plurality of modulators has the same pixel clock time between successive pixels along said common scan line;
at least one laser driver configured to generate a laser driver signal from said plurality of the modulated control signals; and
a light beam generating unit configured to generate a light beam being driven by said at least one laser driver.
~~at least two modulators configured to modulate said light beam,~~
~~said at least two modulators outputting a modulated signal including image data for a common scan line in a main scanning direction; and~~
~~at least one image processor configured to transfer said image data to said at least two modulators.~~
2. (Currently Amended) The light beam scanning apparatus according to claim 1, wherein said ~~at least two~~ plurality of modulators comprise pulse width modulators (PWMs).
3. (Currently Amended) The light beam scanning apparatus according to claim 1, wherein said ~~at least two~~ plurality of modulators comprise a first modulator configured to output a first modulated signal for odd successive pixel image data on said common scan line and a second modulator configured to

output a second modulated signal for even successive pixel image data on the common scan line.

4. (Original) The light beam scanning apparatus according to claim 3, wherein a center of even and odd pixels is aligned by said light beam generating unit.

5. (Currently Amended) ~~The~~ A light beam scanning apparatus ~~according to claim 3, comprising:~~

a light beam generating unit configured to generate a light beam;
at least two modulators configured to modulate said light beam,
said at least two modulators outputting a modulated signal including
image data for a common scan line in a main scanning direction; and
at least one image processor configured to transfer said image data to
said at least two modulators,

wherein said at least two modulators comprise a first modulator
configured to output a modulated signal for odd pixel image data and a second
modulator configured to output a modulated signal for even pixel image data,

wherein the first modulator is synchronized with a reference clock, and
wherein the second modulator is synchronized with a delayed reference clock.

6. (Original) The light beam scanning apparatus according to claim 3,

wherein the first modulator is synchronized with a reference clock, and
wherein the second modulator is synchronized with the reference clock.

7. (Currently Amended) The light beam scanning apparatus according to claim 1, further comprising:

a plurality of laser drivers,

wherein each of said plurality of laser drivers is coupled to a corresponding one of said ~~at least two~~ plurality of modulators so as to generate a laser driver signal from a corresponding modulated signal, and

wherein said plurality of laser drivers are electrically coupled to said light beam generating unit such that said light beam is driven by said laser driver signals.

8. (Currently Amended) The light beam scanning apparatus according to claim 1, further comprising:

a combiner coupled to said ~~at least two~~ plurality of modulators so as to receive the modulated signals outputted by said ~~at least two modulator~~ plurality of modulators, said combiner outputting a combined modulated signal; and

a laser driver coupled to said combiner so as to generate a laser driver signal from said combined modulated signal.

9. (Original) The light beam scanning apparatus according to claim 8, wherein said combiner comprises an OR gate circuit.

10. (Original) The light beam scanning apparatus according to claim 1, wherein said light beam generating unit comprises a single laser.

11. (Original) An image forming device including the light beam scanning apparatus according to claim 1.

12. (Currently Amended) The image forming device according to claim 11, wherein the image forming device comprises one of a laser printer, a photocopier, a facsimile machine, ~~and~~ or a combination thereof.

13. (Currently Amended) The ~~image forming device~~ light beam scanning apparatus according to claim 1, wherein the common scan line is a series of pixels along the main scanning direction of an object to be scanned.

14. (Currently Amended) A method of scanning a common scan line in a main scanning direction with a light emitting device, comprising:

generating at least a first control signal and a second control signal for driving the light emitting device, said first control signal and said second control signal being generated at the same pixel clock time from image data for the common scan line in the main scanning direction;

driving the light emitting device with the first control signal to scan successive pixels along the common scan line in the main scanning direction;
and

driving the light emitting device with the second control signal to scan successive pixels along the common scan line in the main scanning direction.

15. (Original) The method according to claim 14, further comprising:
pulse width modulating the first control signal and the second control signal.

16. (Original) The method according to claim 14, further comprising:
combining the first control signal and the second control signal,
wherein driving the light emitting device with the first control signal and driving the light emitting device with the second control signal comprises driving the light emitting device with a combined control signal.

17. (Original) The method according to claim 16, wherein combining the first control signal and the second control signal comprises ORing the first control signal with the second control signal.

18. (Original) The method according to claim 14, wherein the first control signal corresponds to odd pixel image data and the second control signal corresponds to even pixel image data.

19. (Original) The method according to claim 18, further comprising aligning a center of even pixels with a center of odd pixels to maintain a pixel pitch within a predetermined range.

20. (Currently Amended) ~~The A method according to claim 14,~~
further of scanning a common scan line in a main scanning directing with a light
emitting device, comprising:

generating at least a first control signal and a second control signal for
driving the light emitting device, said first control signal and said second control
signal being generated from image data for the common scan line in the main
scanning direction;

driving the light emitting device with the first control signal to scan the
common scan line in the main scanning direction;

driving the light emitting device with the second control signal to scan the
common scan line in the main scanning direction; and

synchronizing the second control signal with a delayed clock, the delayed clock being delayed with respect to the first control signal.

21. (Original) The method according to claim 14, further comprising synchronizing the first control signal and the second control signal with the reference clock.

22. (Original) The method according to claim 14, wherein the common scan line is a series of pixels along the main scanning direction of an object to be scanned.

23. (Currently Amended) An image forming device, comprising:
means for emitting a light beam;
means for driving said means for emitting a light beam so as to scan successive pixels along a common scan line in a main scanning direction; and
means for modulating said light beam with a plurality of modulated signals including image data for each of the successive pixels along the common scan line in the main scanning direction.

24. (Original) The image forming device according to claim 23, further comprising:
means for combining said plurality of modulated signals into a combined modulated signal.

25. (Original) The image forming device according to claim 23,
wherein said means for driving comprises a plurality of laser drivers, each of said plurality of laser drivers generating a laser driver signal from a corresponding modulated signal, and
wherein the image forming device further comprises means for combining said laser driver signals.

26. (Original) The image forming device according to claim 23,
wherein the common scan line is a series of pixels along the main scanning direction of an object to be scanned.